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(54) Title: IMPROVED EXTRATION AND PURIFICATION METHOD FOR CEREAL BETA (1-3) BETA (1-4) GLUCAN

(57) Abstract: A novel method to extract and purify cereal  $\beta$ -glucan is described. Cereal  $\beta$  glucans are distinctive polymers of glucose differentiated from other polymers not only by their source but also by their physicochemical properties. The high purity of the cereal  $\beta$ -glucan obtained according to the present invention allows for the preparation of clear, colourless viscous liquid preparations. These liquid preparations are stable to gelling effects when kept at ambient temperatures and low ash concentrations. Compositions comprising  $\beta$  (1-3)  $\beta$  (1-4) glucan and a freezing point depressant are also, described.

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C08B37/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/43719 A (WEISSMAN GLENN H) 6 June 2002 (2002-06-06) example 2	19-22
X	US 5 980 918 A (KLEIN BARBARA K) 9 November 1999 (1999-11-09) claim 1	19-22
A	US 5 518 710 A (BHATTY RATTAN S) 21 May 1996 (1996-05-21) the whole document	1-16
X	column 7, line 15 - line 18; table 3	17
X	US 6 284 886 B1 (REDMOND MARK J) 4 September 2001 (2001-09-04) cited in the application examples 1-3	17,18
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WESTERLUND E ET AL: "ISOLATION AND CHEMICAL CHARACTERIZATION OF WATER-SOLUBLE MIXED-LINKED B-GLUCANS AND ARABINOXYLANS IN OAT MILLING FRACTIONS" CARBOHYDRATE POLYMERS, APPLIED SCIENCE PUBLISHERS, LTD. BARKING, GB, vol. 20, no. 2, 1993, pages 115-123, XP000343989 ISSN: 0144-8617 abstract	17,18
A	page 116, right-hand column	1-16
X	WIKSTROM KATARINA ET AL: "Rheological studies of water-soluble (1-3),(1-4)-beta-D-glucans from milling fractions of oat" JOURNAL OF FOOD SCIENCE, vol. 59, no. 5, 1994, pages 1077-1080, XP001194837 ISSN: 0022-1147	17,18
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Information on patent family members

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